

ABSTRACTCLAIMS

1. Telecommunication switching arrangement (1) for switching digital data contained in data packets (23) provided with a packet header (21), which contains a first (25) and a second index (26) representative of a first and a second characteristic of the data packet (23), the arrangement (1) comprising a crosspoint switch (3) for switching packets (23) from a plurality of input lines (5, 7) of the switch (1) to an output line (11) of the switch (1), and a sequencer in the crosspoint switch (3) for determining a sequence in which the data packets (23) are to be switched to the output line (11), and a storage (5) for temporarily storing the data packets (23),

5 characterized in that the sequencer is operative to determine the sequence in which the data packets (23) are to be switched to the output line (11) based on a result of a mathematical operation on the first index (25) and the second index (26).

10 2. Telecommunication switching arrangement (1) according to claim 1, characterized in that the indices (25, 26) are arranged to contain multilevel values.

15 3. Telecommunication switching arrangement (1) according to claim 1, or 2, characterized in that the mathematical operation is the addition of the first index (25) and the second index (26).

20 4. Telecommunication switching arrangement (1) according to claim 1, or 2, characterized in that the mathematical operation is the multiplication of the first index (25) and the second index (26).

25 5. Telecommunication switching arrangement (1) according to claim 1, 2, 3 or 4, characterized in that the first packet characteristic of the data packet (23) is a packet loss priority.

6. Telecommunication switching arrangement (1) according to claim 1, 2, 3 or 4,

characterized in that the second packet characteristic of the data packet (23) is a packet delay priority.

7. Telecommunication switching arrangement (1) according to claim 1, 2, 3, 4, 5,

5 or 6,

characterized in that the sequence for data packets (23) with an equal result of the mathematical operation is based on a predetermined one of the indices (25, 26).

8. Telecommunications switching arrangement (1) according to claim 5

10 characterized in that the sequencer is operative to determine whether or not to temporarily store data packets (23) based on the packet loss priority.

9. Telecommunications switching arrangement (1) according to claim 5, or 8,
characterized in that the sequencer is operative to purge a data packet (23) from the storage
15 (5), based on the packet loss priority when the number of data packets (23) in the storage (5)
exceeds a predetermined threshold value.

10. Method for determining a sequence in which incoming data packets (23) are to be switched from an input line (7, 9) to an output line (11) of a telecommunication switching arrangement (1) where the data packets (23) contain a first (25) and a second index (26) representative of a first and a second characteristic of the data packet (23) and where the switching arrangement (1) comprises a storage (5) the method including the following steps:
- receiving a data packet (23)
- performing a mathematical operation on the first (25) and the second index (26)
25 - determining a sequence in which the data packets (23) are to be switched to the output line (11) based on the result of the mathematical operation.

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